Attorney's Docket No. 032831-002 Patent

CLAIMS

What Is Claimed Is:

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A transformer, comprising:

a magnetic core having a substantially toroidal shape;

a plurality of conductors distributed around the magnetic core, each conductor partially enclosing a portion of the core and being adapted to be electrically connected to form a first winding; and

a single sheet of metallic material formed to partially enclose portions of the core, edges of the sheet being adapted to be electrically connected to form a second winding.

- 2. The transformer of claim 1, wherein the formed sheet provides substantially uniform distribution of current around the core annulus.
- 3. The transformer of claim 2, wherein the sheet is electrically equivalent to a single turn.
- 4. A transformer, comprising:
 - a magnetic core having a substantially toroidal shape;
- a plurality of conductors distributed around the magnetic core, each conductor partially enclosing a portion of the core and being adapted to be electrically connected to form a first winding; and
- a single sheet of metallic material formed to substantially enclose the core and the first winding, edges of the sheet being adapted to be electrically connected to form a second winding.
- 5. The transformer of claim 4, wherein the formed sheet provides substantially uniform distribution of current around the core annulus.



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- 1 6. The transformer of claim 5, wherein the sheet is electrically equivalent to a single turn.
 - 7. A transformer, comprising:

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- a magnetic fore having a substantially toroidal shape;
- at least one winding applied to the core, each of the at least one winding enclosing at least a portion of the core annulus, thereby forming a wound core; and a single sheet of metallic material formed to substantially enclose the wound core.
- 8. The transformer of claim 7, wherein the formed sheet forms an additional winding.
- 9. The transformer of claim 8, wherein the additional winding provides substantially uniform distribution of current around the core annulus.
- 10. The transformer of claim 9, wherein the additional winding is electrically equivalent to a single turn.
- 11. A printed dircuit assembly comprising:
 - a printed circuit board having a plurality of conductive traces;
- a transformer electrically connected to the printed circuit board, the transformer having a magnetic core and a plurality of conductors, each conductor partially enclosing a portion of the core and being adapted to be electrically connected;

wherein at least some of the plurality of conductors are electrically connected in series to at least some of the conductive traces are to form a first winding; and

wherein at least some of the plurality of conductors are electrically connected in series to at least some of the conductive traces are to form a second winding, the second winding being separate from the first winding.

